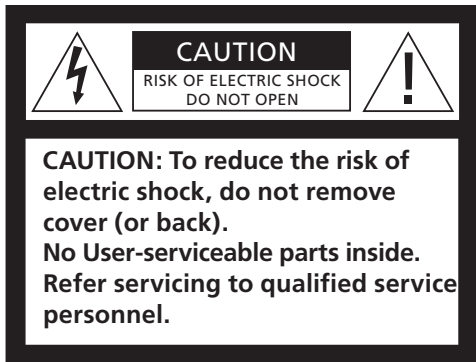


Guide





WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.

To completely disconnect this equipment from the AC Mains, disconnect the mains plug from the wall socket. The disconnect device shall remain readily operable.



The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of un-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

We expect your Bang & Olufsen retailer to deliver, install and set up your products. However, the information required to install and set them up is included in the Guide. This is useful if you move your products or expand your system at a later date.

Daily operation, 4

- Introducing your television and Beo4, 4
- Watch TV, 6
- Adjust sound and picture format, 8
- Teletext, 10
- Menu overview, 12

Advanced operation, 13

Find out how to operate a connected source, bring up a computer image on the screen and operate your television in Option 4. In addition find out how to operate an audio system, how to operate your television in a BeoLink system, and how to disable the internal TV tuner.

Tuning and preference settings, 25

Find out how to set up your television for the first time, tune in and edit channels. How to register additional sources and make a surround sound setup. This chapter also contains information about settings for picture and sound.

Placement, sockets and connections, 45

Find out how to handle and place your television and where the sockets are placed. Find out how to connect sources.

Maintenance, 53

How to clean your television and change batteries in the Beo4 remote control.

Index, 54

Introducing your television and Beo4

The Beo4 remote control gives you access to all functions. When a function is in use, you are informed via displays on Beo4 or on the television.

- Switch on the television
- Switch on the television and activate the DVB HD module as source*. Operation of the DVB HD source is described in a separate Guide
- Select channels or teletext pages. Enter data in on-screen menus
- Enter information in on-screen menus
- Accept and store instructions or settings. Press and hold to bring up a TV channel list
- Step up or down through channels or menu items
- Reveal additional functions in the Beo4 display, such as FORMAT

TV
DTV
0 – 9
GO
LIST



For information about how to operate connected equipment, refer to the Guide enclosed with it. For information on how to add extra functions to those shown in the Beo4 display, refer to the Guide enclosed with Beo4.

TV
FORMAT

The Beo4 display shows the source you have selected, or extra functions available when you press the LIST button

MENU

Bring up the main menu

TEXT

Switch on teletext



Adjust sound volume: press in the middle to mute the sound



STOP

Step back through previous menus

EXIT

Exit all on-screen menus



Switch the television to standby

*NOTE: Which button activates the DVB HD module depends on your settings in the TUNER SETUP menu, refer to page 24 for further information.

Displayed information and menus

Information about the selected source is shown in the display. On-screen menus allow you to adjust settings.

How to use on-screen menus ...

Press to switch on the television **TV**

Press to bring up the TV SETUP menu **MENU**

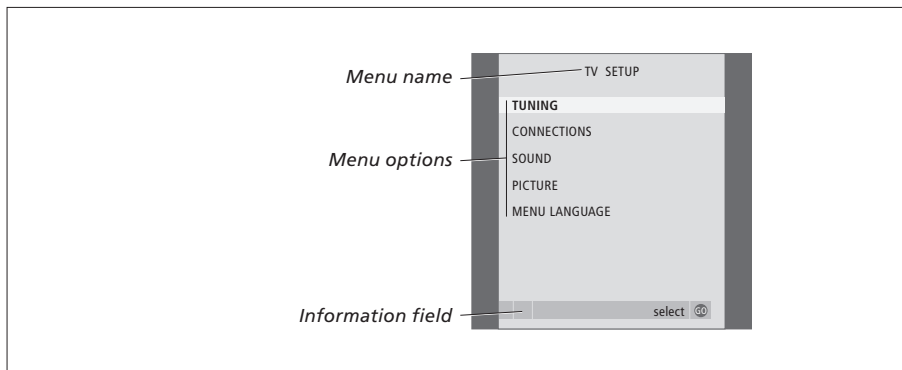
Press to move between the different menu options **▲ ▼**

Press to reveal different settings **◀ ▶**

Press to bring up a menu or store a setting you have made **GO**

Press to step back through previous menus **STOP**

Press to exit all menus **EXIT**



Example of on-screen menu.



An explanation of symbols in the Guide

Buttons on the Beo4 remote control

TV LIST
◀ ▶
▲ ▼

Display on the Beo4 remote control

FORMAT

Display on the television

VOL 26

This chapter describes daily use of your television: how to switch the television on, choose a channel and switch the television off.

The channel list gives you an overview of all your TV channels.

Select a TV channel

When you switch the television on, the last channel viewed appears on the screen.

Press to switch on the television **TV**

Press a channel number to go directly to that channel **0 – 9**

Press to change channels one by one **▲ ▼**

Press to switch the television to standby **•**

Pressing 0 swaps between the current TV channel and previous TV channel.

Bring up a channel list

All your TV channels appear on a list, which you can bring up on the screen. The list contains channel numbers and names, and can contain up to 99 TV channels.

Press to switch on the television **TV**

Press and hold to bring up a channel list on the screen **GO**

Press **◀▶** or **▶▶** to step between 'pages' in the channel list **◀ ▶**

To select a channel, enter the channel number, or ... **0 – 9**

... press until the desired channel is highlighted **▲ ▼**

Press to switch on the chosen channel, or ... **GO**

... press to leave the menu **EXIT**

NOTE! If the screen is overheated, black spots may appear in the picture. These spots disappear again, once the television cools down to normal temperature.

CHANNEL LIST	
1	SAT 1
2	INFOKANAL
3	RTL
4	MTV
5	DISCOVERY
6	EUROSPORT
7	ARD
8	TV4
9	DR1
10
11	ZDF
12	SVT 1
13
14	TV3
15	TVDK1
16	TVDK2
17	CNN
18	BBCWORLD
▼ more select 	

The channel list provides you with an overview of all your available TV channels.

Adjust sound and picture format

Several sound adjustment possibilities are available in your television.

You can adjust the volume or mute the sound completely at any time.

If channels are broadcasted with different sound types or languages, you can choose between the sound types or languages.

If speakers are connected to your television, you can select a speaker combination.

While watching TV, you can adjust the picture format.

Adjust volume or mute the sound

You can adjust volume or mute the sound at any time.

Press either end of the button to adjust the volume up or down

Press in the middle of the button to mute the sound

Press either end of the button to bring the sound back

Prolonged listening at high volume levels can cause hearing damage!

Sound type or language

While you are watching TV, you can switch between the types of sound that are available.

Press repeatedly to display SOUND* on Beo4

Press to bring up the current sound type in the display

Press GO repeatedly to switch to another sound type or language in a multi-language programme

Press to leave the SOUND function

You can store your favourite sound type when tuning in your TV channels. For further information, refer to the chapter 'Edit tuned channels' on page 36.

*NOTE! In order to display SOUND on Beo4, you must first add it to the Beo4 list of functions. Refer to the Guide enclosed with Beo4.

Speaker combination

If you connect loudspeakers to your television, you can change the speaker combination at any time.

Press repeatedly to display
SPEAKER on Beo4

LIST

SPEAKER

Press to select a speaker
combination

1 – 5

Press to adjust the balance
between the front and rear
speakers

▲
▼

Press to adjust the balance
between the left and right
speakers

◀ ▶

Press to remove SPEAKER from
the Beo4 display and return to
the source you were using

EXIT

Speaker combinations

SPEAKER 1 ... Sound in the centre speaker only.

SPEAKER 2 ... Stereo sound in the front speakers.
Subwoofers are active.

SPEAKER 3 ... The centre speaker, front speakers
and subwoofers are active.

SPEAKER 4 ... The front speakers, surround
speakers, and subwoofers are active.

SPEAKER 5 ... Surround sound from all speakers
and subwoofers.

*Available speaker combinations depend on the
number of connected speakers.*

Picture format

Select a picture format to optimise the picture.

Press repeatedly to display
FORMAT on Beo4

LIST

FORMAT

Press if you want to optimise the
picture, or ...

GO

... press the number of the
desired picture format

1 – 4

*If you have chosen Format 1
or Format 4 ...*

Press ◀ or ▶ to select variations
of this format

◀ ▶

If you have chosen Format 1
or Format 2 ...*

Press ▲ or ▼ to move the
picture up and down

▲
▼

Press to leave the FORMAT
function

EXIT

**Pictures in 4:3 format cannot be
moved up and down.*

Picture formats to choose from ...

FORMAT 1 ... For standard TV pictures. Three
variations are available: 4:3, 15:9 and Panoramic
view (for the largest picture).

FORMAT 2 ... For letter-box pictures. If necessary
move the picture up or down to ensure that
channel names or subtitles – if these appear in
the broadcasted picture – can be seen. In some
cases FORMAT 2 is selected automatically.

FORMAT 3 ... For genuine 16:9 wide-screen
pictures. FORMAT 3 is usually selected
automatically. If this is not the case, you can
select it yourself.

FORMAT 4 ... A video signal in Format 4 uses the
16:9 format and removes any bars at the sides.
A graphics signal, for example from a PC, in
Format 4 displays the centre part of the picture.
When displaying a graphics signal in Format 4,
you can select the left or right part of the
picture with ◀ and ▶, respectively.

*To temporarily remove the picture from the screen,
press LIST repeatedly to display P.MUTE on Beo4,
then press GO. To restore the picture again, press
any source button, such as TV.*

NOTE! For further information about how to
connect speakers to the television, refer to the
chapter 'Connection panels' on page 51.

If you select a channel and the broadcaster offers a teletext service, the television gives you access to teletext pages and any subpages linked to the pages.

Teletext can be shown in dual-screen or normal viewing mode, this means that the teletext page either fills the entire television screen or only half.

The arrow buttons on Beo4 and the menu bar at the top of the screen, help you move to the page you want. When you get there, you can pause the turning of subpages to read them at your own pace.

The television can remember your favourite pages or reveal hidden messages. To make your favourite teletext pages appear first when you bring up teletext, store them as MEMO pages.

Basic teletext functions

Navigate through teletext pages by using the menu bar at the top of the teletext page.

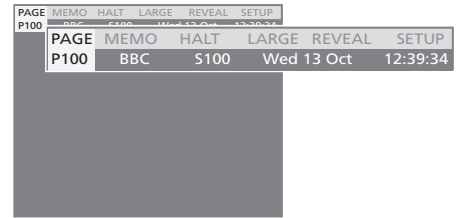
- > Press **TEXT** to gain access to teletext and **EXIT** to leave teletext.

To move to a new page ...

- > Enter the number of the page you wish to see, or ...
- > ... press **◀** to move the highlighted cursor to PAGE.
- > Press **▲** or **▼** to step between pages, and hold to step faster.
- > Pressing **GO** steps to index pages (100, 200, 300 ...).

To enlarge the teletext page ...

- > Press **▶** to move the highlighted cursor to LARGE.
- > Press **GO** to show the upper half of the page in double height. Press **GO** again to see the lower half of the page.
- > Press **GO** to return the teletext page to normal size.



To stop subpages from turning ...

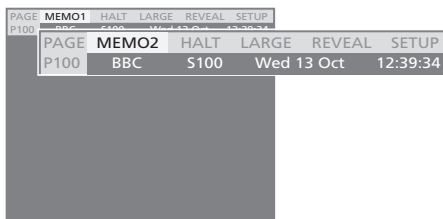
- > Press **STOP** to stop subpages from turning, or...
- > ... move the cursor to HALT and press **GO**. HALT is replaced by a set of four digits.
- > Use **▼** and **▲** to step to the subpage you wish to see, or ...
- > ... enter its number using the number buttons on Beo4.
- > Press **GO** to restart page turning.

To reveal hidden messages and the like ...

- > Press **▶** to move the highlighted cursor to REVEAL.
- > Press **GO** to reveal hidden text on the current page.

NOTE! If your television is linked via a BeoLink cable to another television, stored MEMO pages are not shared among these televisions. MEMO pages must be stored manually on each linked television.

Store favourite teletext pages



Nine MEMO pages are available for each television channel's teletext service.

To create a MEMO page ...

- > Bring up a page you view often.
- > Press ◀ or ▶ to move the cursor along the menu bar to SETUP and press GO. The 9 available MEMO slots are shown by number. The first is highlighted.
- > Press GO to store the current page. The cursor moves to the next available MEMO slot.
- > Use the number buttons on Beo4 to select the next teletext page you wish to store.
- > Repeat the procedure for each page you wish to store.
- > To leave the MEMO setup, press ◀ or ▶ to move the cursor to BACK and press GO.
- > Press EXIT to leave teletext.

Day-to-day use of MEMO pages

You may wish to refer to your teletext MEMO pages quickly, for example, if you are leaving for work and wish to check traffic information on a teletext service.

To view MEMO pages ...

- > Press TEXT to bring up teletext.
- > Press ▲ or ▼ to move between MEMO pages.
- > Press EXIT to leave teletext.

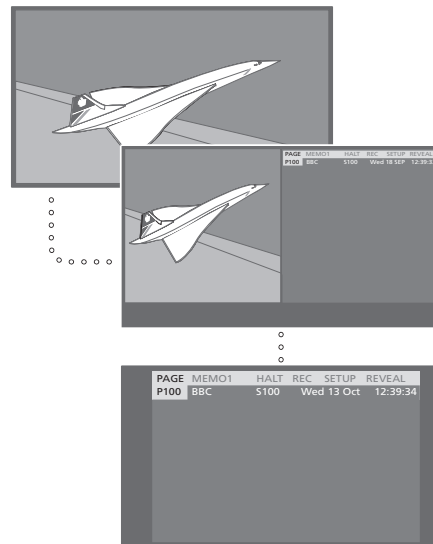
To delete a MEMO page ...

- > Press ◀ or ▶ to move the cursor to SETUP and press GO.
- > Move the cursor to the MEMO page you wish to delete and press the yellow button.
- > Press the yellow button again to confirm.

To view teletext subtitles for a program ...

If you would like available teletext subtitles to appear automatically for a particular program, store the teletext subtitles page as MEMO page 9.

First time use of teletext



The very first time teletext is activated, it starts in dual-screen mode. You can then choose full-screen instead. The teletext mode is remembered the next time you switch on teletext.

To change viewing mode ...

- > Press TEXT to bring up teletext.
- > Press TEXT again to switch between full-screen and dual-screen.
- > Press EXIT to leave teletext.

MEMO pages are not available in DVB teletext.

Menu overview

The illustration on this page shows the content of the menu system, and also indicates where in this Guide you can find further information about the menus.

The extended on-screen menu system for the television. The greyed menu items indicate optional extras which may or may not be present in your system.

Available menus also depend on the TV tuner settings, Option setting and connected speakers. For example, the tuning menus are not available if the television tuner is disabled.

Press MENU on Beo4 to access the main menu.

TV SETUP		SOUND		p. 43
TUNING		ADJUSTMENT		
EDIT CHANNELS		VOLUME		
ADD CHANNELS		BASS		
AUTO TUNING		TREBLE		
MANUAL TUNING		LOUDNESS		
FREQUENCY		DEFAULT AUDIO		p. 43
CHANNEL NO.		DEFAULT VIDEO		p. 43
NAME		SPEAKER TYPE		p. 30
FINE TUNE		FRONT		
DECODER		REAR		
TV SYSTEM		SUBWOOFER		
SOUND		SPEAKER DISTANCE		p. 31
PLAY TIMER		CENTRE		
CONNECTIONS		LEFT FRONT		
AV 1		RIGHT FRONT		
SOURCE		RIGHT REAR		
IR SOCKET		LEFT REAR		
STB SETUP		SUBWOOFER		
STANDBY OPTIONS		SPEAKER LEVEL		p. 32
HDMI		SEQUENCE		
S/P-DIF		LEFT FRONT		
AV 2		RIGHT FRONT		
SOURCE		RIGHT REAR		
IR SOCKET		LEFT REAR		
STB SETUP		SOUND SYSTEM		p. 34
STANDBY OPTIONS		PICTURE		p. 42
HDMI		BRIGHTNESS		
YPBPR		CONTRAST		
S/P-DIF		COLOUR		
AV 3		TINT		
SOURCE		HOR. SIZE		
IR SOCKET		HOR. POSITION		
STB SETUP		VERT. POSITION		
STANDBY OPTIONS		MENU LANGUAGE		p. 44
HDMI		DANSK		
YPBPR		DEUTSCH		
VGA		ENGLISH		
S/P-DIF		ESPAÑOL		
AV4		FRANÇAIS		
SOURCE		ITALIANO		
IR SOCKET		NEDERLANDS		
STB SETUP		SVENSKA		
STANDBY OPTIONS				
HDMI				
S/P-DIF				
LINK				
FREQUENCY				p. 23
TV SYSTEM				p. 23
MODULATOR				p. 23
TUNER SETUP				p. 24
TV TUNER				
DVB HD				

This chapter tells you how to operate a connected source, how to use your television as a computer monitor, and how to operate your television with an audio system and in a BeoLink system. It also tells you how to disable the internal TV tuner.

Daily operation, 4

Find out how to use the Beo4 remote control, bring up the menus on the screen, operate the daily functions of your television and how to adjust sound and picture format. In addition, find an overview of the on-screen menu system.

Advanced operation, 13

- Use connected video equipment with Beo4, 14
- Use your television as a computer monitor, 16
- Two televisions in the same room, 17
- Connect and operate an audio system, 18
- BeoVision in a link room, 20
- BeoLink – Distribute sound and picture, 22
- TV tuner, 24

Tuning and preference settings, 25

Find out how to set up your television for the first time, tune in and edit channels. How to register additional sources and make a surround sound setup. This chapter also contains information about settings for picture and sound.

Placement, sockets and connections, 45

Find out how to handle and place your television and where the sockets are placed. Find out how to connect sources.

Maintenance, 53

How to clean your television and change batteries in the Beo4 remote control.

Index, 54

Use connected video equipment with Beo4

The built-in Peripheral Unit Controller acts as an interpreter between connected video equipment, such as a set-top box, video recorder or DVD player, and the Beo4 remote control.

You can use the Beo4 remote control to gain access to the channels and functions offered by your equipment.

Some functions are available via Beo4 when you switch on the equipment. Additional functions are available through a Peripheral Unit Controller menu that you bring up on the screen.

For instruction in the various functions offered by your equipment, please refer to the product’s own user’s guide.

For further information about supported equipment, contact your Bang & Olufsen retailer.

Peripheral Unit Controller menu

Buttons on the remote controls included with your equipment may not match those on Beo4. To see which Beo4 buttons activate specific services or functions, bring up the Peripheral Unit Controller menu on the screen.

Press a source button* to switch on connected equipment

**TV
DTV**

Press to bring up the Peripheral Unit Controller menu

MENU

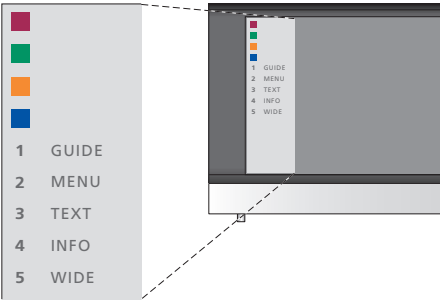
Press the number button that activates the function you want, or ...

1 – 9

... press one of the coloured buttons to activate a function



When you have selected a set-top box as a source, press MENU twice to bring up the television’s main menu.



Example of a Peripheral Unit Controller menu – The Beo4 buttons are shown to the left on the menu, and the functions they control are shown to the right. The menu may also list buttons on the remote control included with your connected equipment.

NOTE: Which source button activates your peripheral unit depends on the tuner setup and settings in the CONNECTIONS menu, refer to page 24 and 28 for further information.

Universal Beo4 operation


If you know which Beo4 button activates the function you want, you can activate the function without bringing up the Peripheral Unit Controller menu first.

While your equipment is on ...

Press GO and then the number button that activates the function you want

GO
1 – 9

Press one of the coloured buttons to activate a function



Press GO and then ▲ or ▼ to step up or down through channels directly

GO
▲
▼

Press and hold GO to bring up the Program guide or the 'Now/Next' banner on the screen depending on your source

GO

If you have chosen the standby option 'MANUAL CONTROL', see page 29, and your set-top box supports it, you can switch the box on by pressing GO + 0.

Use equipment menus

Once you have activated connected equipment, you can operate its own menus with Beo4.

While equipment menus are shown ...

Moves the cursor up or down

▲
▼

Moves the cursor left or right

◀ ▶

Selects and activates a function

GO
GO

Press GO and then ◀ or ▶ to step between menu pages or step in channel lists

GO
◀ ▶


Exits menus, or returns to a previous menu*

STOP

Exits menus, enters or exits different modes, such as radio

EXIT

Use the coloured buttons as indicated in the menus of your connected equipment



**Depending on your source, you may have to press EXIT twice instead of STOP to return to a previous menu.*

Use equipment in a link room

When you have connected equipment to the television in the main room, you can operate it via the link room television. However, the Peripheral Unit Controller menu cannot be displayed on the television screen in the link room.

Press to switch on equipment in the main room

V MEM
DVD
DTV

Press GO and then the number button that activates the function you want

GO
1 – 9

Press one of the coloured buttons to activate a function



If you connect your television to a computer, as described on page 49, you can use it as a monitor.

IMPORTANT! If you wish to connect a computer to the television and use the television as a monitor, make sure that you disconnect the television, the computer, and all equipment connected to the computer from the mains before you connect the computer and the television to each other.

When in use, the computer must be connected to a grounded wall outlet as specified in the computer’s setting-up instructions.

Bring up the computer image on the screen

To see the computer picture on the television screen, you must bring it up with Beo4.

The television supports the following screen resolutions: 60 Hz: 640 × 480, 800 × 600, 1024 × 768, 1280 × 720.

To bring up the computer picture ...

Press repeatedly until PC* appears in the Beo4 display

LIST

PC

Press to bring up the picture

GO

You can then operate the computer as you normally would.

**In order to display PC on Beo4, you must first add it to the Beo4 list of functions. For further information, refer to the Guide enclosed with Beo4.*

If you have placed your BeoVision 8 in a room where you already have a Bang & Olufsen television, and commands from Beo4 can be received by both televisions, you must change the option setting of BeoVision 8. This prevents simultaneous activation of both televisions.

One remote control for both televisions

For your television to function properly, it is essential that the television is set to the correct Option:

To set your television for Option 4 ...

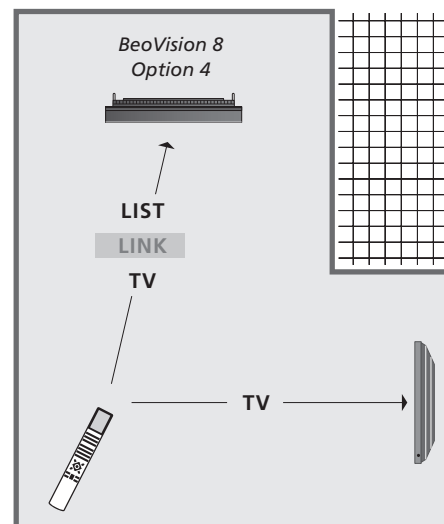
- > While holding the **•** button on Beo4, press **LIST**.
- > Let go of both buttons.
- > Press **LIST** repeatedly to display OPTION? on Beo4 and press **GO**.
- > Press **LIST** repeatedly to display V.OPT on Beo4 and press **4**.

Operate your television in Option 4 ...

Normally, you can activate a source, such as TV, simply by pressing the relevant source button on Beo4. However, when you set your television to Option 4, you must do the following:

- > Press **LIST** repeatedly until **LINK*** is shown in the Beo4 display.
- > Press a source button, such as **TV**.

In order to display **LINK on Beo4, you must add it to the Beo4 list of functions. For further information, refer to the Guide enclosed with Beo4.*



In order to use teletext on a television you have set to Option 4, you must set up Beo4 to 'VIDEO 3', but this limits the Beo4 functions that can be used with televisions set to other Options. For further information, refer to the Guide enclosed with Beo4.

Connect and operate an audio system

If your television is equipped with the optional System Module and you connect a compatible audio system, you obtain the benefits of an integrated audio/video system.

Play a CD on your audio system using the television speakers, or switch on a TV programme and send the sound to your audio system speakers.

Your AV system can be placed together in one room or in two rooms with the television placed in one room, and the audio system with a set of speakers placed in another.

Not all Bang & Olufsen audio systems support integration with the television.

Connect your audio system

Using a Master Link cable, connect the MASTER LINK sockets on the television and the audio system.

Option setting

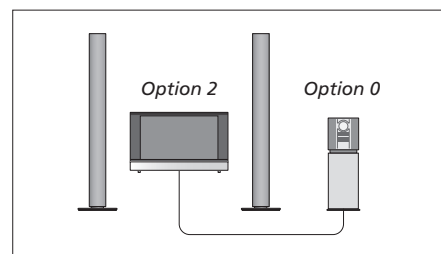
If your television has been set up in an AV system, you may need to set it to the correct Option. Switch the entire system to standby.

Option setting for the television

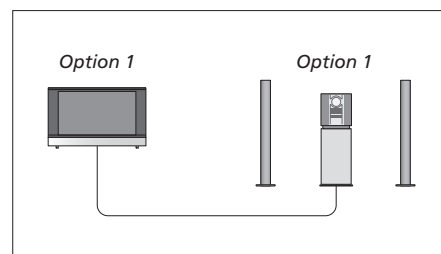
- > While holding the **•** button on Beo4, press **LIST**.
- > Let go of both buttons.
- > Press **LIST** repeatedly to display OPTION? on Beo4 and press **GO**.
- > Press **LIST** repeatedly to display V.OPT on Beo4 and then key in the appropriate number (1 or 2).

Option setting for the audio system

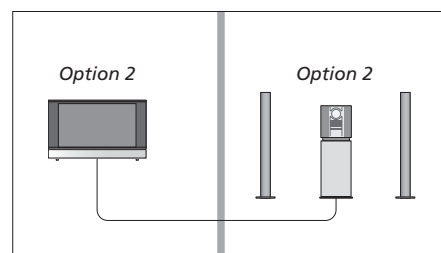
- > Repeat the procedure as described above.
- > Press **LIST** repeatedly to display A.OPT on Beo4 and then key in the appropriate number (0, 1, 2, 5 or 6).



In one room – all speakers are connected to the television.



The television and audio system in the same room.



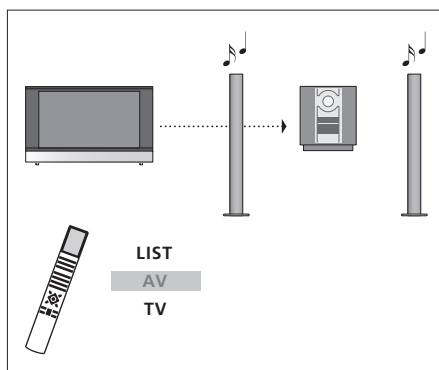
Audio system in one room, and the television in another.

Use an integrated audio/video system

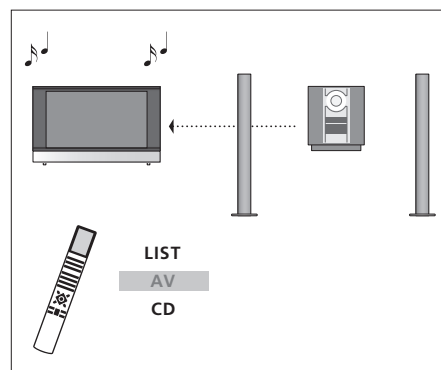
If you integrate your audio system and your television, you can choose a speaker combination appropriate to the current video or audio programme, and also record video sound on the audio system.

Video sound recording

If you listen to sound from your television on your Bang & Olufsen audio system's speakers, and your audio system has a tape recorder, you can record television sound on the audio tape recorder. Refer to the Guide enclosed with your audio system for further information.



To listen to sound from a television source on your audio system speakers without switching on the screen, press LIST repeatedly to display AV on Beo4, and then press a source button, such as TV.*



To listen to audio sound on the television speakers, press LIST repeatedly to display AV on Beo4, and then press an audio source button, such as CD.*

*NOTE! In order to display AV on Beo4, you must first add it to the Beo4 list of functions. For further information, refer to the Guide enclosed with Beo4.

BeoVision in a link room

If your television is equipped with the optional System Module and you choose to use your television in a link room, you can operate all connected systems through the television.

For your entire system to function properly, it is essential that the link room television is set to the correct Option before you connect it to the system in the main room.

You must follow the procedure described below when you connect your television for use in a link room:

- 1 Connect the link room television to the mains.
- 2 Using the Beo4 remote control, program the link room television to Option 6*.
- 3 Disconnect the link room television from the mains.
- 4 Make the link and aerial connections.
- 5 Reconnect the link room television to the mains.

Option setting

To set the link room television to the correct Option ...

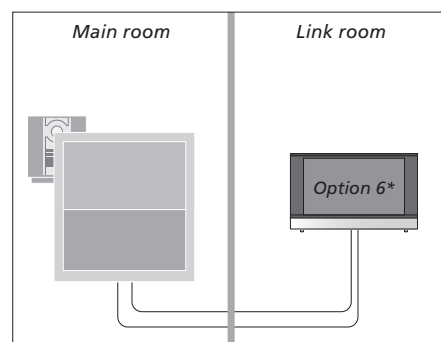
- > While holding the • button, press LIST.
- > Let go of both buttons.
- > Press LIST repeatedly to display OPTION? on Beo4 and press GO.
- > Press LIST repeatedly to display V.OPT on Beo4 and press 6*.

Timer Play in link room

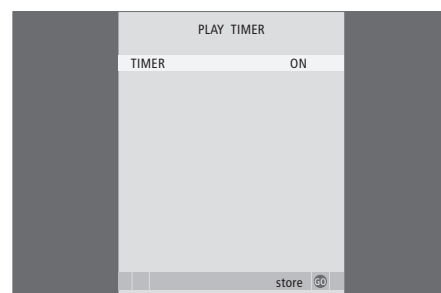
If your television is placed in the link room, it can be part of a Timer Play programmed on your main room system.

To make your television part of a Timer Play ...

- > Press TV to switch on the television.
- > Press MENU to bring up the TV SETUP menu and press ▼ to highlight PLAY TIMER.
- > Press GO to bring up the PLAY TIMER menu. TIMER ON/OFF is already highlighted.
- > Press ◀ or ▶ to reveal ON.
- > Press GO to store the setting.



**If you connect the television for use in a link room where other link systems are already connected, you must set the television to Option 5 instead.*



NOTE! If your BeoVision 8 is linked to a video master with the possibility of programming a Timer Play, the Timer Play can be executed on BeoVision 8.

Link room operation

Use sources present only in one of the rooms ...

- > Press the button for the source you wish to use; operate the selected source as usual.

Use a main room source – present in both rooms ...

- > Press **LIST** repeatedly on Beo4 until LINK* is shown in the display.
- > Press the button for the source you wish to use; operate the source as usual.

Use a link room source – present in both rooms ...

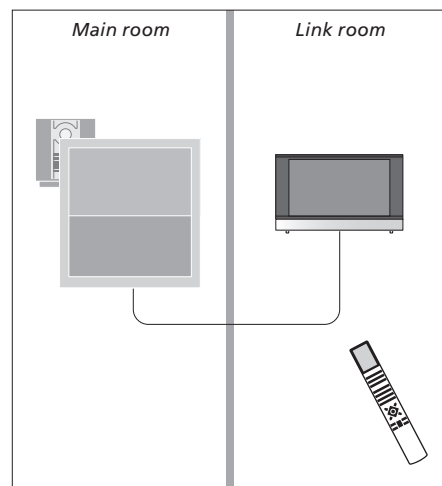
- > Press the button for the source you wish to use; operate the source as usual.

Listen to stereo sound in your link room ...

Usually sound distributed from a main room video source, such as a set-top box, to the link room is transmitted in mono. However, you can select stereo sound:

- > Press **TV** or **DTV** to switch on the television.
- > Press **LIST** repeatedly until AV* is shown in the Beo4 display.
- > Press **DTV** to activate a source connected to the main room system, such as a set-top box.

While using this function, distribution of other main room sources to other link room systems is not possible. You can only listen to stereo sound if your television is set for Option 6.



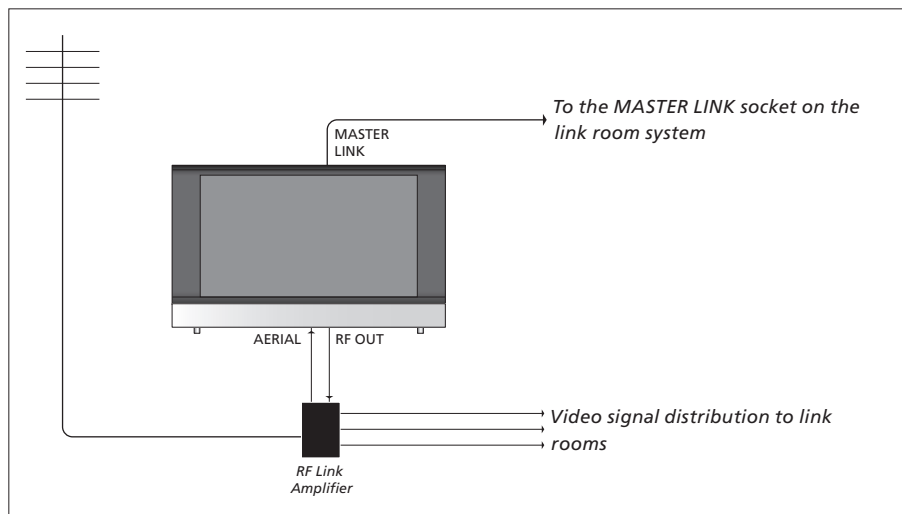
*In order to display LINK and AV on Beo4, you must first add them to the Beo4 list of functions. For further information, refer to the Guide enclosed with Beo4.

BeoLink – Distribute sound and picture

The BeoLink system makes it possible to distribute picture and/or sound to other rooms throughout the house.

If you have a BeoLink distribution system installed, and your television is equipped with the optional System Module, you can either use your television in the main room, such as a living room, or in a link room, such as a study or bedroom.

Link connections



The main room system must be connected to the link room system with a Master Link cable.

- > Connect the Master Link cable to the MASTER LINK socket on the television.
- > If you want to distribute video signals as well, connect an ordinary aerial cable to the socket marked 'RF OUT' on the television. Then run the aerial cable to the RF Link Amplifier and the Master Link cable to the link room and follow the instructions enclosed with the link room equipment.

If an audio system is already connected to the MASTER LINK socket and you wish to connect more equipment, then the Master Link cable must be split in two and joined with the cable from the link room using a special junction box. Contact your Bang & Olufsen retailer for assistance.

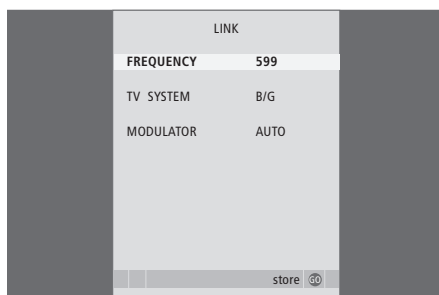
Digital signals cannot be distributed from a main room television to the link room system.

System modulator

If your link room is an audio setup, for example, a BeoLink Active/Passive, and you choose to set up a non-linkable TV in the same room, you must set the system modulator to ON, as described below. The factory setting is AUTO, which must be used if you use a linkable Bang & Olufsen TV.

To switch on the system modulator ...

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press ▼ to highlight CONNECTIONS.
- > Press **GO** to bring up the CONNECTIONS menu and press ▼ to highlight LINK.
- > Press **GO** to bring up the LINK menu, and press ▼ to highlight MODULATOR.
- > Press ◀ or ▶ to reveal ON.
- > Press **GO** to store the setting, or ...
- > ... press **EXIT** to leave all menus without storing.



The LINK menu is only available when a local TV source is selected.

Link frequency

If, for example, a TV channel in your area is broadcasted on the same frequency as the BeoLink system uses, 599 MHz, you must tune the system modulator to an unused frequency. When you change the link frequency in the main room system, you may have to change the link frequency in the link room system accordingly.

To change the link frequency ...

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press ▼ to highlight CONNECTIONS.
- > Press **GO** to bring up the CONNECTIONS menu and press ▼ to highlight LINK.
- > Press **GO** to bring up the LINK menu, FREQUENCY is already highlighted.
- > Press ◀ or ▶ or 0 – 9 to find an unused frequency.
- > Press **GO** to store the setting, or ...
- > ... press **EXIT** to leave all menus without storing.

Recommended setups

If your television is the video master of a BeoLink setup, we recommend that a BeoCenter 2 or DVD 2 is connected to the AV1 socket and HDR 2 must be connected to the AV4 socket.

Simultaneous sources:

While watching one source on the television screen in the main room, you can either record a different source or distribute one other source to a link room.

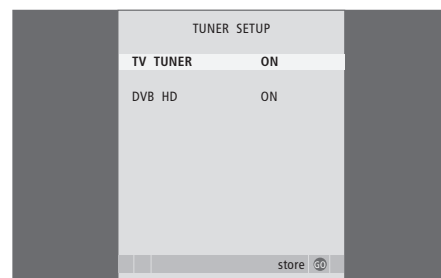
Tuner setup

You may choose to disable the TV tuner, if your television source is the DVB HD or a peripheral unit, such as a set-top box. If you disable the TV tuner, you activate DVB HD by means of the TV button and you can activate a peripheral unit by means of the DTV button. If you also disable the DVB HD tuner, you can activate a connected peripheral unit acting as tuner wither either the TV button or the DTV button.

To disable the internal tuner ...

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press ▼ to highlight TUNER SETUP.
- > Press **GO** to bring up the TUNER SETUP menu, TV TUNER is already highlighted.
- > Press ◀ or ▶ to switch between the setting ON or OFF.
- > Press ▼ to highlight DVB HD.
- > Press ◀ or ▶ to switch between the setting ON or OFF.
- > Press **GO** to store the settings, or ...
- > ... press **EXIT** to leave all menus without storing.

Important! If you have connected a Bang & Olufsen hard disc recorder to your television, it is recommended not to disable the TV tuner.



Find out how to perform the first-time setup procedure and tune in all available channels automatically. In addition, you can find information about how to edit tuned channels and adjust other available settings, such as picture and sound.

For information about how to place your television and connect additional video equipment, refer to the chapter '*Placement, sockets and connections*' on page 45.

Daily operation, 4

Find out how to use the Beo4 remote control, bring up the menus on the screen, operate the daily functions of your television and how to adjust sound and picture format. In addition, find an overview of the on-screen menu system.

Advanced operation, 13

Find out how to operate a connected source, bring up a computer image on the screen and operate your television in Option 4. In addition find out how to operate an audio system, how to operate your television in a BeoLink system, and how to disable the internal TV tuner.

Tuning and preference settings, 25

- First-time setup of your television, 26
- Register additional video equipment, 28
- Loudspeaker setup – surround sound, 30
- Edit tuned channels, 36
- Re-tune or add channels, 40
- Adjust picture and sound settings, 42
- Choose menu language, 44

Placement, sockets and connections, 45

Find out how to handle and place your television and where the sockets are placed. Find out how to connect sources.

Maintenance, 53

How to clean your television and change batteries in the Beo4 remote control.

Index, 54

First-time setup of your television

The setup procedure described here is activated when the television is connected to the mains and switched on for the first time. You are led through an automatic series of on-screen menus in which you must register the extra equipment you have connected and loudspeakers.

If you change your setup at a later date, you can access the same menus and update your settings.

For information on setting up and operating DVB HD, refer to the separate Guide.

First-time setup of your television has four main steps: registration of all connected equipment, tuning of channels, loudspeaker setup and sound adjustment. However, which menus appear depends on whether or not the TV tuner is enabled and whether or not you have connected additional speakers to the television.

The CONNECTIONS menu also varies according to the Option programming of your television, described on page 20 and whether the television is equipped with the optional System Module or not.

- MENU LANGUAGE
- TUNER
- CONNECTIONS
- AUTO TUNING TV
- SPEAKER TYPES
- SPEAKER DISTANCE
- SPEAKER LEVEL
- SOUND ADJUSTMENT

The sequence of menus in first-time setup:

MENU LANGUAGE ... You can select the language for on-screen menus. The text on the screen changes as you move from language to language. For further information, refer to the chapter 'Choose menu language' on page 44.

TUNER ... In this menu you can disable the internal TV tuner and make DVB HD your main television source, and you can disable the DVB HD module to let a peripheral unit (set-top box) be your DTV television source.

CONNECTIONS ... Select the type of equipment you have connected to each socket, the sockets used, the product name, and the source name. For further information about the CONNECTIONS menu, refer to the chapter 'Register additional video equipment' on page 28.

AUTO TUNING ... When you have registered your connected equipment, a menu for channel tuning automatically appears on the screen. Press GO to start auto tuning. The television tunes in all available channels. For further information about tuning TV channels, refer to the chapter 'Re-tune or add channels' on page 40.

SPEAKER TYPES ... In this menu, you select which Bang & Olufsen speakers are connected. For further information about the SPEAKER TYPES menu, refer to page 30 in the chapter 'Loudspeaker setup – surround sound'.

SPEAKER DISTANCE ... Enter the straight-line distances from each speaker to your listening position. For further information about the SPEAKER DISTANCE menu, refer to page 31 in the chapter 'Loudspeaker setup – surround sound'.

SPEAKER LEVEL ... In this menu, you are to calibrate the sound level for the connected speakers. A calibration sound is produced alternately in each speaker. Adjust the sound level from all the connected speakers to match the sound level from the centre speaker. You can choose whether you want the sound sequence to occur automatically or manually. For further information about the SPEAKER LEVEL menu, refer to page 32 in the chapter 'Loudspeaker setup – surround sound'.

SOUND ADJUSTMENT ... Adjust sound characteristics, such as volume, bass, treble and loudness. In addition, you can preset two default speaker combinations; one to be used each time you switch on a video source in your television, and one to be used each time you switch on an audio source connected to your television. You can still select a different speaker combination any time you wish. For further information about the SOUND ADJUSTMENT menu, refer to the chapter 'Adjust picture and sound settings' on page 42.

For information about where and how to connect extra equipment, refer to 'Register additional video equipment' on page 28 and the chapter 'Connection panels' on page 50.

If you connect additional video equipment to your television, you must register the equipment in the CONNECTIONS menu.

When the system is first set up, the equipment connected at that particular moment is detected by the television, and the CONNECTIONS menu appears automatically on the screen. If you connect equipment at a later date, on a permanent basis, then you must register this equipment in the CONNECTIONS menu.

For information about where and how to connect extra equipment, refer to the previous pages and the chapter 'Connection panels' on page 50.

What is connected?

Registering the equipment connected to the television enables you to activate it with the Beo4 remote control.

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu.
- > Press **▼** to highlight CONNECTIONS.
- > Press **GO** to bring up the CONNECTIONS menu.
- > Press **▲** or **▼** to step between the different socket groups: AV1, AV2, AV3 and possibly AV4.
- > Press **GO** to be able to register a connected product to the highlighted socket group.
- > Press **▲** or **▼** to move between sockets in the group.
- > Press **◀** or **▶** to register what you have connected to the highlighted socket.
- > Press **GO** to be able to select another socket group.
- > Press **STOP** to back up through previous menus or press **EXIT** to exit all menus directly.

AV2	
SOURCE	V. MEM
IR SOCKET	NONE
HDMI	NONE
YPbPr	NO
S/P-DIF	NONE
store	

If you register a source to a socket and do not assign an IR socket to this source, a sub-menu opens where you must choose between, for example, Bang & Olufsen and Non-Bang & Olufsen products.

When you have connected additional video equipment to your television, you must also 'tell' the system what is connected.

What's on the AV1 – AV4 menu ...

SOURCE ... Select the source you have connected.

The option you select indicates which remote control button switches on the source. For example, a source registered as V.MEM is switched on when you press the VMEM button.

V.MEM ... If you have connected a Bang & Olufsen video recorder or any other video recorder.

DVD ... If you have connected a DVD player.

DTV ... If you have connected a set-top box registered as DTV.

V.AUX ... If you have connected a set-top box or other equipment registered as V.AUX.

DECODER ... If you have connected a decoder.

PC ... For a connected PC.

NONE ... If no equipment is connected.

IR SOCKET ... If the equipment connected to this socket is controlled via IR, select which socket the IR controller is connected to; PUC1, PUC2, PUC3 or PUC4.

HDMI ... Indicates whether or not the equipment is connected to the television via one of the HDMI sockets. Select the appropriate socket: A or B.

S/P-DIF ... Indicates whether or not the equipment is connected to the television via one of the SPDIF sockets. Select the appropriate socket: 1 or 2.

(YPbPr) ... Indicates whether or not the equipment is connected to the television via the YPbPr sockets. Options are YES and NO. Only available in the AV2 and AV3 menus, and can only be registered in one of these menus at any time.

(VGA) ... Indicates whether or not the equipment is connected via the VGA socket. Options are YES and NO. Only available in the AV3 menu.

While it is possible to register your equipment under any of the available source names, the names you select affect how you can use your sources.

Automatic standby ...

When you register a set-top box in the CONNECTIONS menu, you can also select a 'standby setting' time for your set-top box. This means that you can select if the connected set-top box should switch to standby automatically.

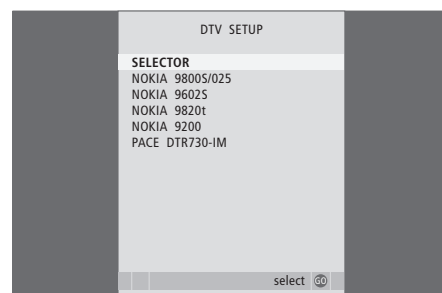
The options are:

OFF AT SOURCE CHANGE ... The set-top box is switched on when selected, and off when another source is selected.

OFF AT TV STANDBY ... The set-top box is switched on when selected, and off when the television is switched off.

ALWAYS ON ... The set-top box is always on and never switched off.

MANUAL CONTROL ... The set-top box is not switched on and off automatically. You switch it on and off manually by means of the Beo4 remote control.



If you have connected a set-top box, you will be prompted to select your set-top box from an onscreen list when you select an IR socket in the CONNECTIONS menu.

If a source is connected to the HDMI socket, some video functions are affected:

- You cannot distribute sound or picture from a HD source to a product in a link room, unless your HD equipment also provides a Standard Definition (SD) signal
- You cannot record an HD source, unless your HD equipment also provides a Standard Definition (SD) signal.

NOTE! Contents of the CONNECTIONS menu depend on whether the television is equipped with the optional System Module or not.

Add four Power Link speakers and a BeoLab subwoofer to your setup and you have a surround sound system.

A surround sound setup fits easily into your living room. Let the picture determine your ideal listening and viewing position. You get the best sound experience in the area created by the speakers.

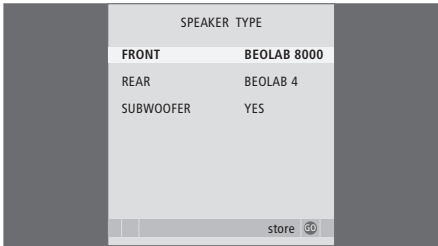
Select speaker types

Connect the loudspeakers to the Power Link sockets on the television. Refer to the Guide enclosed with the loudspeakers for specific information about how to set them up. Refer to ‘Connection panels’ on page 51 for information about the Power Link sockets.

Remember to set the L–R–LINE switch on both the front and rear set of speakers to L or R (left and right sound channel) to indicate their position in each set. Set the left speakers to L and the right speakers to R.

To register the speaker types ...


- > Press **MENU** to bring up the TV SETUP menu and press ▼ to highlight SOUND.
- > Press **GO** to bring up the SOUND menu and press ▼ to highlight SPEAKER TYPE.
- > Press **GO** to bring up the SPEAKER TYPE menu.
- > Press ◀ or ▶ to reveal your speaker type and ▼ to move on to the next speaker set. Choose NONE if no speakers are connected.
- > If you have a BeoLab subwoofer, press ▼ to move the cursor to SUBWOOFER and press ▶▶ to change the field to YES.
- > Press **GO** to store or **EXIT** to leave the menu without storing.



Always select your most powerful speakers as front speakers.

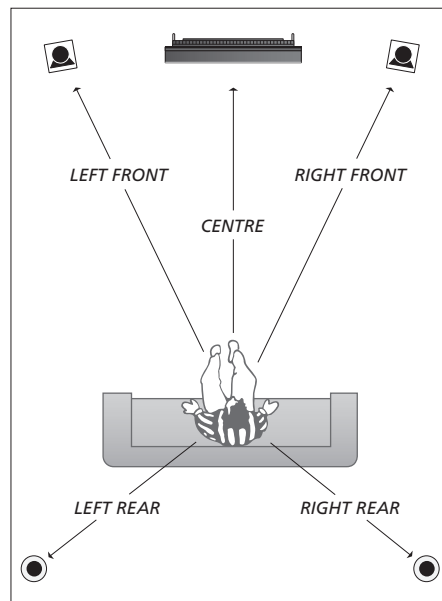
Set speaker distance

Switch on the television from your favourite viewing position. Enter the straight-line distances in metres between your position and the individual speakers.

SPEAKER DISTANCE	
CENTRE	1.0 M
LEFT FRONT	1.0 M
RIGHT FRONT	1.0 M
RIGHT REAR	1.0 M
LEFT REAR	1.0 M
SUBWOOFER	1.0 M
store 	

To set the speaker distances ...

- > Press **MENU** to bring up the TV SETUP menu and press **▼** to highlight SOUND.
- > Press **GO** to bring up the SOUND menu and press **▼** to highlight SPEAKER DISTANCE.
- > Press **GO** to bring up the SPEAKER DISTANCE menu.
- > Press **▲** or **▼** to move the cursor from speaker to speaker and press **◀** or **▶** to select the approximate straight-line distance in metres between your viewing position and each of the speakers.
- > When you have entered the appropriate speaker distances, press **GO** to store or press **EXIT** to leave the menu without storing.



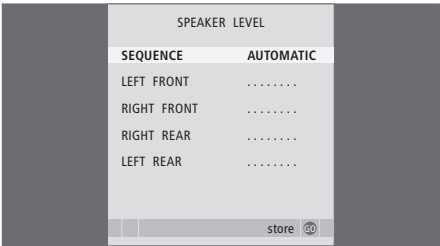
Calibrate the sound level

When you have connected speakers in a surround sound setup to the television, you must perform a speaker calibration.

A calibration sound is produced alternately in each of the speakers you have connected in your surround sound setup. Your task is to adjust the sound level from all the connected speakers to match the sound level from the centre speaker. You can choose whether you want the sound sequence to occur automatically or manually.

Once you have performed your speaker calibration, you will only need to re-calibrate the speaker sound if you make changes to the setup, for example, if you move one or more of the speakers.

- To calibrate the sound level ...*
- > Press **MENU** to bring up the TV SETUP menu and press ▼ to highlight SOUND.
 - > Press **GO** to bring up the SOUND menu and press ▼ to highlight SPEAKER LEVEL.
 - > Press **GO** to bring up the SPEAKER LEVEL menu. SEQUENCE is highlighted.
 - > Press ◀ or ▶ to choose between AUTOMATIC and MANUAL.
 - > Press ◀ or ▶ to adjust the speaker sound and ▲ or ▼ to move to another speaker.
 - > When you have adjusted the sound for all the speakers in your surround sound setup, press **GO** to store or press **EXIT** to leave the menu without storing.



It is not necessary to calibrate subwoofer sound in a surround sound setup.

Choose a speaker combination

While you are watching a movie or programme, you can choose the speaker combination you wish to switch on, provided that the various sound modes are available in your system.

The television may switch on a speaker combination automatically. This happens if a programme or DVD contains information about the number of speakers to be switched on. You are still free to choose the speaker combination you prefer.

To choose a speaker combination ...

- > Press **LIST** on Beo4 until **SPEAKER** is shown in the Beo4 display.
- > Press the number of the speaker combination you want. The selected speakers cut in automatically.
- > If you want to adjust the sound balance for the programme you are watching, press **▲** or **▼** to adjust the balance between the external front and rear speakers, and press **◀** or **▶** to adjust the balance between the left and right speakers.
- > Press **EXIT** to remove **SPEAKER** from the Beo4 display and to return to the source you were using.

Speaker combinations

SPEAKER 1 ... Sound in the centre speaker only.

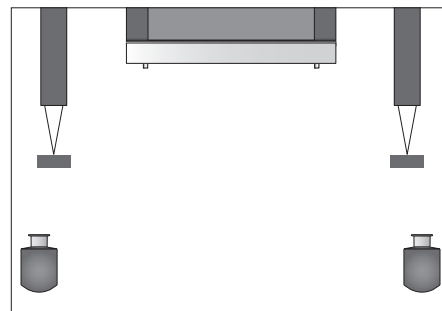
SPEAKER 2 ... Stereo sound in the front speakers.

Subwoofers are active.

SPEAKER 3 ... The centre speaker, front speakers and subwoofers are active.

SPEAKER 4 ... The front speakers, surround speakers, and subwoofers are active.

SPEAKER 5 ... Surround sound from all speakers and subwoofers.



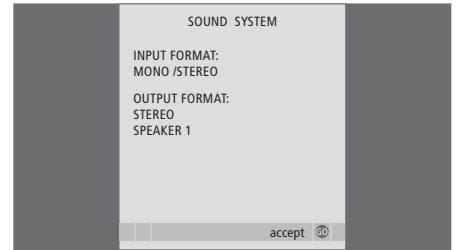
*If you only have connected a pair of front speakers to the television, you can only choose **SPEAKER 1–3**.*

See the name of the active sound system

You can see the name of the active sound system for a source or programme on the screen. The menu shows both the input format and the output format. However, it is not possible to adjust or preset a sound system.

To see the active sound system ...

- > Press **MENU** to bring up the TV SETUP menu and press ▼ to highlight SOUND.
- > Press **GO** to bring up the SOUND menu and press ▼ to highlight SOUND SYSTEM.
- > Press **GO** to bring up the SOUND SYSTEM menu.



If automatic tuning of all channels have not stored the channels on your preferred channel numbers or has not named all the stored channels automatically, you can rearrange the order in which the channels appear and provide them with a name of your own choice

If the tuned channels require additional editing, such as fine tuning, use the MANUAL TUNING menu.

Move or delete tuned channels

At any time, you can move or delete any tuned TV channels you do not want.

Move channels ...

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu. TUNING is already highlighted.
- > Press **GO** to bring up the TUNING menu. EDIT CHANNELS is already highlighted.
- > Press **GO** to bring up the EDIT CHANNELS menu.
- > Press **▼** or **▲** to select the channel you wish to move.
- > Press **►►** once to be able to move the channel. The channel is now moved out of the list.
- > Press **▼** or **▲** to move the channel to the desired channel number.
- > Press **◀◀** to make the channel move back into the list or change places with the channel which occupies the desired channel number.
- > Now, move the channel which you changed places with to an empty channel number or to a number already occupied and repeat the procedure.
- > When you have moved the relevant channels, press **STOP** to back up through all menus, or press **EXIT** to exit all menus.



Delete channels ...

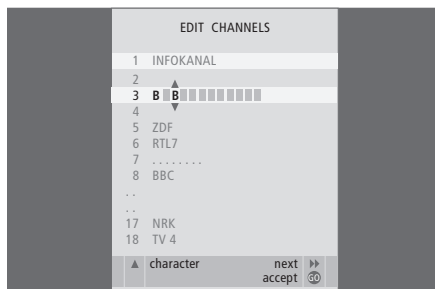
- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu. TUNING is already highlighted.
- > Press **GO** to bring up the TUNING menu. EDIT CHANNELS is already highlighted.
- > Press **GO** to bring up the EDIT CHANNELS menu.
- > Press **▼** or **▲** to move to the channel you wish to delete.
- > Press **►►** to move the channel out of the list.
- > Press the yellow button to be able to delete the channel – the channel is then shown in red.
- > Press the yellow button again to finally delete the channel, or press **◀◀** twice to move the channel back into the list.
- > When you have deleted the relevant channels, press **EXIT** to exit all menus.

Name tuned channels

The EDIT CHANNELS menu also allows you to name all channels yourself.

Name channels ...

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu. TUNING is already highlighted.
- > Press **GO** to bring up the TUNING menu. EDIT CHANNELS is already highlighted.
- > Press **GO** to bring up the EDIT CHANNELS menu.
- > Press ▼ or ▲ to select the channel you wish to name.
- > Press the green button to be able to name the channel. The naming menu is now activated.
- > Press ▼ or ▲ to find the individual characters in the name.
- > Press ►► to move to the next character. Use ▲ and ▼, or ◀ and ►► to enter or edit all the characters in the name you choose.
- > Press **GO** to store the name.
- > If necessary, repeat the procedure and name other channel numbers.
- > When you have named the relevant channels, press **GO** to accept your edited list, or press **EXIT** to exit all menus.



Adjust tuned TV channels – manual tuning

You can store TV channels on channel numbers of their own. Fine tune the channel reception, indicate the presence of coded channels and choose appropriate sound types for the individual channels.

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu. TUNING is already highlighted.
- > Press **GO** to bring up the TUNING menu and press ▼ to highlight MANUAL TUNING.
- > Press **GO** to bring up the MANUAL TUNING menu.
- > Press ▼ or ▲ to move between items on the menu.
- > Press ◀ or ▶ to view your choices for each item.
- > If you choose NAME, then press the green button to start the naming procedure. Use ▼ or ▲ and ▶ to enter the characters in the name you choose.
- > When you have finished editing, press **GO** to store the adjusted channel.
- > Press **EXIT** to exit all menus.

The item TV SYSTEM appears on the menu, then make sure that the correct broadcast system is displayed before you begin tuning.

If channels are broadcasted with two languages and you want both languages, you can store the channel twice, once with each language.

Even though you store a type of sound/language, you can switch between the various types while watching a TV channel. For further information, refer to the chapter 'Adjust sound and picture format' on page 8.

MANUAL TUNING	
FREQUENCY	217
CHANNEL NO.	7
NAME	DR1
FINE TUNE	0
DECODER	OFF
TV SYSTEM	B/G
SOUND	STEREO

Re-tune or add channels

You can make your television find your TV channels for you.

Preset up to 99 different TV channels on channel numbers of their own and give each channel a distinct name.

You can tune in new channels, for example, if you move – or re-tune previously deleted channels.

When tuning in channels via the ADD CHANNEL menu, your previously tuned channels are left unchanged. This allows you to keep channel names, their order in the TV list, and any special settings you may have stored for those channels, such as decoder or broadcast system settings.

Re-tune via automatic tuning

You can re-tune all your TV channels by letting the television tune in all the channels automatically.

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu. TUNING is already highlighted.
- > Press **GO** to bring up the TUNING menu and press **▼** to highlight AUTO TUNING.
- > Press **GO** to bring up the AUTO TUNING menu.
- > Press **▶▶** to start auto tuning.
- > Once auto tuning is completed, the EDIT CHANNELS menu appears. You can then rearrange the channel order, delete channels or rename them.



Please note: If you re-tune all your TV channels, all channel settings, you have made, disappear!

Add new channels

You can add a new channel or update a tuned channel which, for example, has been moved by the broadcaster.

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu. TUNING is already highlighted.
- > Press **GO** to bring up the TUNING menu and press **▼** to highlight ADD CHANNEL.
- > Press **GO** to bring up the ADD CHANNEL menu.
- > Press **▶▶** to start. New channels are added automatically as they are found.
- > When tuning is completed and new channels have been added, the EDIT CHANNELS menu appears. You can then rearrange the channel order, delete channels or rename them. The cursor highlights the first new channel of those just added to the list.



If a channel is stored on Channel no. 99, you cannot activate the ADD CHANNELS function.

Adjust picture and sound settings

Picture and sound settings are preset from the factory to neutral values which suit most viewing and listening situations. However, if you wish, you can adjust these settings to your liking.

Adjust picture brightness, colour or contrast. Sound settings include volume, bass and treble.

Store your picture and sound settings temporarily – until your television is switched off – or store them permanently.

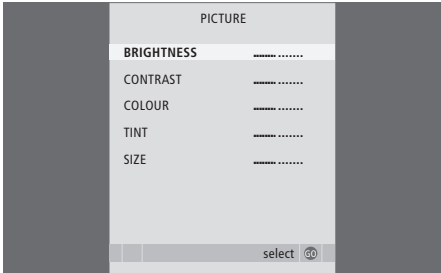
For information about how to change the picture format, refer page 9.

Change brightness, colour or contrast

Adjust the picture settings via the PICTURE menu. Temporary settings are cancelled when you switch off the television.

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press ▼ to highlight PICTURE.
- > Press **GO** to bring up the PICTURE menu.
- > Press ▲ or ▼ to move through menu items.
- > Press ◀ or ▶ to adjust the values.
- > Press **EXIT** to store your settings until you switch off the television, or ...
- > ... press **GO** to store your settings permanently.

To temporarily remove the picture from the screen, press LIST repeatedly to display P.MUTE on Beo4, then press GO. To restore the picture again, press any source button, such as TV.



When signals are sent in format 1080p or 1080i, the menu item SIZE is available in the picture menu.

What's on the PICTURE menu ...

- BRIGHTNESS ... Adjusts the picture brightness.
- CONTRAST ... Adjusts the contrast level in the picture.
- COLOUR ... Adjusts the colour intensity in the picture.
- (SIZE) ... If you experience any irregularities along the edges of the picture, select SIZE and adjust.

If a source, such as a PC, is connected via the VGA socket, the following options appear:

- HOR. SIZE ... Adjusts the width of the picture.
- VERT. SIZE ... Adjusts the height of the picture.
- HOR. POSITION ... Adjusts the position of the picture horizontally.
- VERT. POSITION ... Adjusts the position of the picture vertically.

For video sources using the NTSC signal, a further option – Tint (colour shade or nuance) – will be available for adjustment.

Sound adjustments

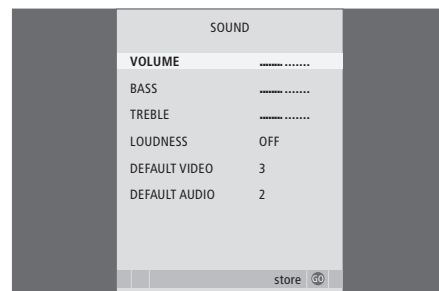
Sound settings are preset at the factory to neutral values which suit most listening situations. However, if you wish, you can adjust these settings to your liking.

You can preset levels for sound volume, bass, treble and a connected BeoLab subwoofer.

You can switch the loudness feature on or off. The loudness feature compensates for the human ear's lack of sensitivity to high and low frequencies. These frequencies are boosted at low volume levels so that low music becomes more dynamic.

In addition you can preset two default speaker combinations; one to be used each time you switch on a video source in your system, and one to be used each time you switch on an audio source connected to your system. You can still select a different speaker combination any time you wish, refer to page 9 for further information.

- > Press **MENU** to bring up the TV SETUP menu and press ▼ to highlight SOUND.
- > Press **GO** to bring up the SOUND menu, ADJUSTMENT is highlighted already.
- > Press **GO** to bring up the SOUND ADJUSTMENT menu.
- > Press ▲ or ▼ to select an item to adjust.
- > Press ◀ or ▶ to adjust the values or choose a setting.
- > Press ▲ or ▼ to move through menu items.
- > Press **EXIT** to store your settings until you switch off your television.
- > Press **GO** to store your settings permanently.



The contents of the SOUND menu varies according to what you have connected to the television.

What's on the SOUND menu ...

VOLUME ... Adjusts the volume level the TV uses when you switch it on.

BASS ... Adjusts the bass level.

TREBLE ... Adjusts the treble level.

SUBWOOFER ... (only available if you have connected a BeoLab subwoofer) Adjusts the sound level from the subwoofer.

LOUDNESS ... Loudness can be set to YES or NO.

DEFAULT VIDEO ... Set the speaker combination you want to use when switching on a video source in your system. Options are 3 and 5.

DEFAULT AUDIO ... Set the speaker combination you want to use when switching on an audio source in your system. Options are 2 and 4. Refer to page 33 for further information on speaker combinations.

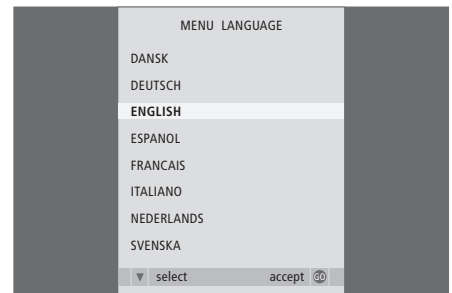
Choose menu language

The menu language you choose during the first-time setup of your television can be changed at any time.

Once a menu language is chosen, all menus and display messages are shown in this language.

You can select the language for on-screen menus via the TV SETUP menu. The text on the screen changes as you move from language to language.

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press ▼ to highlight MENU LANGUAGE.
- > Press **GO** to bring up the MENU LANGUAGE menu.
- > Use ▼ and ▲ to move to your language choice.
- > Press **GO** to make your choice.
- > Press **STOP** to back up through previous menus or press **EXIT** to exit all menus directly.



In this chapter, you can find out how to place and connect your television. It also gives you an overview of the socket panels.

We recommend that you follow the procedure described below when you set up your television:

- Unpack the television
- Consider the appropriate surroundings for your television
- Mount the television on the chosen stand or bracket
- Place the television
- Connect the cables, additional equipment, and speakers

This procedure is described in detail on the following pages.

Daily operation, 4

Find out how to use the Beo4 remote control, bring up the menus on the screen, operate the daily functions of your television and how to adjust sound and picture format. In addition, find an overview of the on-screen menu system.

Advanced operation, 13

Find out how to operate a connected source, bring up a computer image on the screen and operate your television in Option 4. In addition find out how to operate an audio system, how to operate your television in a BeoLink system, and how to disable the internal TV tuner.

Tuning and preference settings, 25

Find out how to set up your television for the first time, tune in and edit channels. How to register additional sources and make a surround sound setup. This chapter also contains information about settings for picture and sound.

Placement, sockets and connections, 45

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- Connection panels, 50
- Camera and headphones sockets, 52

Maintenance, 53

How to clean your television and change batteries in the Beo4 remote control.

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Set up the television

For information about how to fasten and run the cables on the rear of the television, refer to this page.

For further information about the connection panels, refer to page 50.

Handling your television

Avoid placing the television in direct sunlight or direct artificial light, such as a spotlight, as this may reduce the sensitivity of the remote control receiver. Also if the screen is overheated, black spots may appear in the picture. These spots disappear again, once the television cools down to normal temperature.

To avoid injury, use Bang & Olufsen approved stands or wall brackets only.

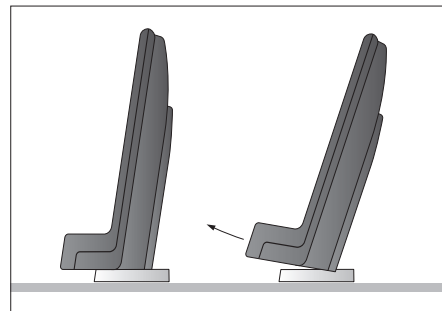
Make sure that the television is set up, placed and connected in accordance with these instructions.

The television is developed for indoor use in dry, domestic environments only. Use within a temperature range of 10–40°C (50–105°F).

Do not place any items on top of the television.

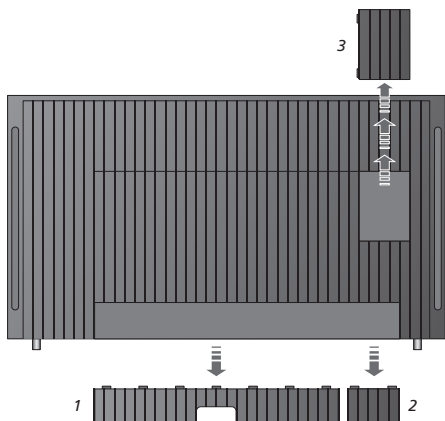
Do not attempt to open the television. Leave such operations to qualified service personnel.

The television was designed to be left in standby mode when not in use. Therefore, to facilitate remote control operation, it is essential that you do not disconnect it from the mains. The television can only be switched off completely, if you disconnect it from the mains.



Place the television on a firm and stable surface. The standard placement allows you to tilt the television, for example to facilitate viewing at a low placement. To tilt the television pull at the bottom of the television

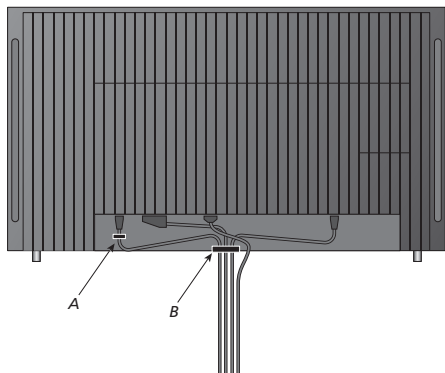
If you are going to place the television on either the floor stand or the wall bracket, the two standard 'feet' must be removed from the television. Follow the instructions in the Guide enclosed with these optional accessories.



To remove the two covers for the main connection panel, first pull out, then pull down at the bottom – also if the television is placed on a stand. To release the cover for the Smart Card and CA-module (3), press the cover to the right.

Always remove cover 1 before removing cover 2.

When you have made all the connections and fastened the cables, mount the cable covers again.



IMPORTANT! For safety reasons the mains supply cable must be fastened to the cable strip (A). All cables must be run through the cable strip (B). However, if your setup includes a VGA connection, do not run the VGA cable through the cable strip (B). Instead, use the two screws in the VGA plug to fasten it to the socket.

If you are going to connect any other equipment to the television, do not connect it to the mains yet!

The supplied mains cord and plug are specially designed for the television. If you change the plug or in any way damage the mains cord, it will affect the TV picture adversely!

When connections are complete and the cables have been secured as described, switch on the mains supply. A tiny, red light appears. The system is in standby mode and ready to be used.

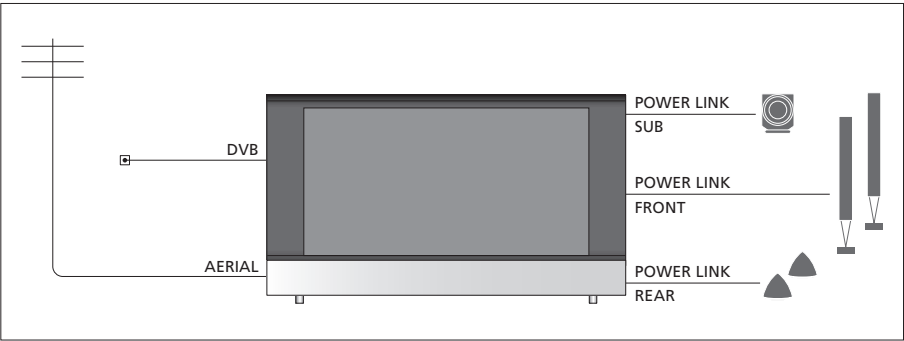
If your television is set up on its own, you can now tune in channels as explained in the chapter 'First-time setup of your television' on page 26.

Connections

The diagrams on these two pages outline how to set up the television with video sources and loudspeakers, and how to expand the setup, for example with a compatible Bang & Olufsen audio system, or with a computer.

Refer to 'Connection panels' on page 50 for further information about each of the sockets.

Refer to 'Register additional video equipment' on page 28 for further information about how to set up connected equipment for use.



Video signals

Connect your video signal sources, such as cable or aerial to the sockets mentioned on the diagram.

Loudspeakers

The television has built-in loudspeakers. However, you can expand the system into a surround sound setup – including a subwoofer. Refer to 'Loud-speaker setup – surround sound' on page 30 for further information.

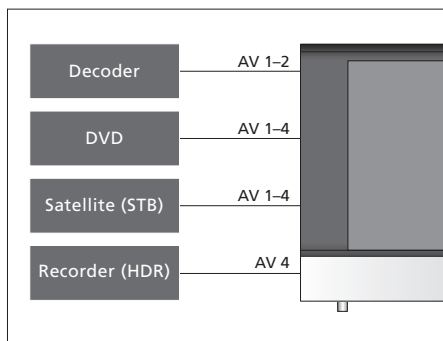
Remember to set the L – R switch on each loud-speaker to L and R (the left and right sound channel, respectively).

Additional video equipment

The sockets on the connection panel allow you to have different types of video equipment connected at the same time. We expect your Bang & Olufsen retailer to deliver, install and set up your products.

Equipment with HDMI™ input

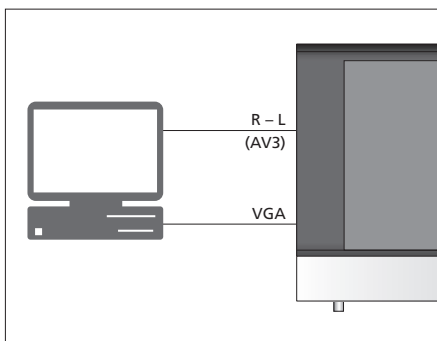
Equipment with HDMI input can be connected to any of the HDMI sockets, regardless of the particular AV socket to which you have connected the equipment.



This diagram shows examples of additional video equipment that can be connected to the television at one time. If you have a Bang & Olufsen recorder, it must be connected to the AV4 socket.

IR-transmitters

In order to operate non-Bang & Olufsen products with your Bang & Olufsen remote control, attach a low-power IR-transmitter to each of the products. Plug each IR-transmitter into one of the sockets marked PUC on the connection panel.

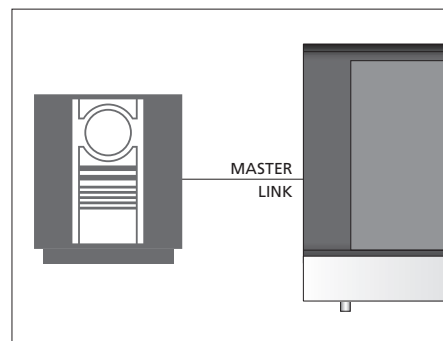


Computer

You can connect a computer and use the television as a monitor.

IMPORTANT: *Disconnect the television, the computer, and all equipment connected to the computer from the mains, before you make the connections. Furthermore, the computer must be connected to a grounded wall outlet as specified in the computer's setting-up instructions!*

Connect the computer's VGA output to the VGA input on the television. To hear sound from the computer in the television loudspeakers, connect the sound output to the AV3 R - L sockets on the television.



Audio system

If you have a Bang & Olufsen audio system with a Master Link socket, you can connect it to the television. Use a Master Link cable, and connect it to the Master Link socket. Refer to 'Connect your audio system' on page 18.

Connection panels

The connection panels on your television allow you to connect signal input cables as well as a variety of extra equipment, such as a video recorder or DVD.

The equipment you connect to these sockets must be registered in the CONNECTIONS menu. For further information, refer to the chapter ‘Register additional video equipment’ on page 28.

Standard sockets

~ (Mains supply)
Connection to the mains supply.

HDMI-IN (A–B)
HDMI™ (High Definition Multimedia Interface) sockets for connection of an HDMI video source or a PC. Sources connected to these sockets can be registered to any of the AV sockets. Supported formats are:
Video: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p.
PC: 640 x 480, 800 x 600, 1024 x 768.

SPDIF (1–2)
Digital audio input sockets for connection of external equipment.

PUC (1–4)
For IR control signal to external equipment (connected to the AV sockets).

AV (1–2)
21-pin sockets for connection of additional video equipment, such as a DVD player, set-top box, a decoder or video recorder.

AV 3 (Pr, Pb, Y and R, L, VIDEO)
For connection of video signals from an external source such as an HDTV source. Can be used in conjunction with the 21-pin AV sockets – or a digital audio socket.

VGA
For connection of a PC for reception of analogue graphics. Supports the following resolutions:
60 Hz; 640 x 480, 800 x 600, 1024 x 768, 1280 x 720.

AERIAL
Aerial input socket for an analogue TV signal, such as an external aerial or cable TV network.

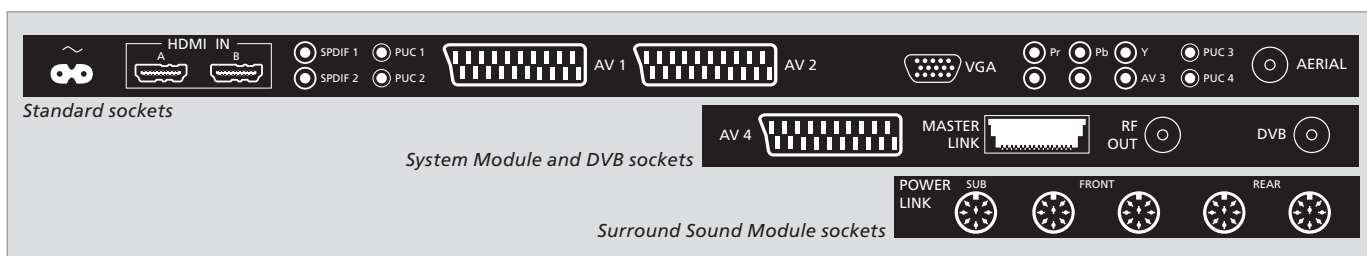
DVB
Aerial input socket for a digital TV signal.

System Module sockets

AV 4
21-pin sockets for connection of additional video equipment. If you have a Bang & Olufsen recorder, we recommend that you connect it to this socket.

MASTER LINK
Socket for connection of a compatible Bang & Olufsen audio system. The socket is also used for BeoLink distribution of sound throughout the house.

RF OUT
Aerial output socket for distribution of video signals to other rooms. Requires an RF Link Amplifier also.



Surround Sound Module sockets

SUB

Socket for connection of a Bang & Olufsen subwoofer, for example a BeoLab 2.

FRONT – REAR

Sockets for connection of external loudspeakers in a surround sound setup.

Smart Card reader and CA module

SMARTCARD

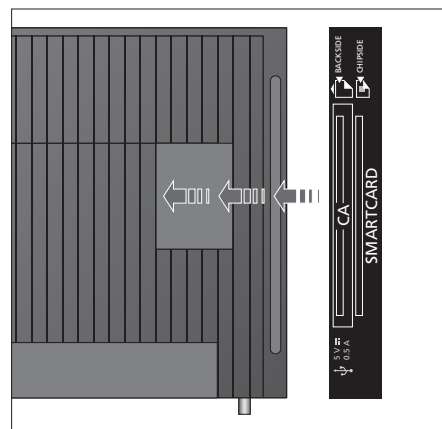
For insertion of a card for access to digital channels. For further information about compatible cards, contact your Bang & Olufsen retailer.

CA

For insertion of a card and module for access to digital satellite channels. For further information about compatible card and module combinations, contact your Bang & Olufsen retailer.

→ (USB)

Socket for retailer and installer use only.



Insert the Smart Card in the CA module with the chip facing the front of the module. Insert the CA module with the front facing the front of the television. The Conax Smart Card must be inserted with the chip facing away from the television front.

Camera and headphones sockets

You can connect headphones and listen to a programme, or you can connect a Camcorder and watch your home movies on the television. If you have connected a video recorder, you can copy Camcorder recordings.

Sockets for temporary connections

PHONES

You can connect stereo headphones to the socket marked PHONES. Adjusting volume will affect both the television speakers and the headphones. Muting sound will affect television speakers only.

- To mute the speakers connected to the television, press the middle of the $\wedge \vee$ button.
- When sound is muted in the speakers, press \wedge or \vee to adjust sound in headphones.
- To restore sound in the speakers, press the middle of the $\wedge \vee$ button.

These sockets are for the connection of a Camcorder:

R – L

For audio connection (right and left sound channel respectively).

VIDEO

For the video signal.

Watch digital pictures on your television

To watch your camera pictures, connect the camera and switch the television on. The television automatically registers the signal and you can see the still pictures on the screen.

If the signal from the camera is switched off ...

- > Press **LIST** repeatedly to display CAMERA* on Beo4 and press **GO**.

**In order to display CAMERA on Beo4, you must first add it to the Beo4 list of functions. For further information, refer to the Guide enclosed with Beo4.*



Watch and copy from a Camcorder

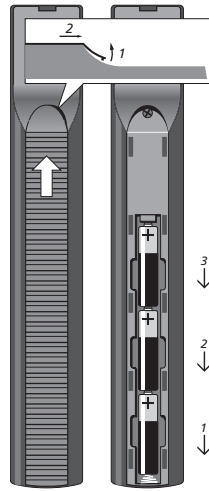
If you have connected a recorder to your television, and you connect your Camcorder, you can copy Camcorder recordings.

To copy a recording from a Camcorder ...

- > Connect your Camcorder and start playback on the Camcorder. The television automatically registers the signal and you can see the pictures on the television screen.
- > Press **RECORD** twice to start recording.

Regular maintenance, such as cleaning the television, is the responsibility of the user. To achieve the best result, follow the instructions to the right. Contact your Bang & Olufsen retailer to determine recommendations for regular maintenance.

Changing the Beo4 batteries



When BATTERY appears in the Beo4 display, it is time to change the batteries in the remote control.

The Beo4 requires three batteries. We recommend that you use Alkaline batteries only (1.5 V – size AAA). Replace the batteries as shown on this page. Keep a finger on top of the batteries until the lid is replaced.

When you have replaced the batteries, wait about 10 seconds until TV appears in the display. The Beo4 remote control is then ready for use.

Do not expose batteries to excessive heat such as sunshine, fire or the like!

Cleaning

Never use alcohol or other solvents to clean any part of the television, stand or wall bracket!

Cabinet surfaces

Wipe dust off the surfaces using a dry, soft cloth. Remove grease stains or persistent dirt with a soft, lint-free, firmly wrung cloth, dipped in a solution of water containing only a few drops of mild detergent, such as washing-up liquid.

The speaker cover may also be cleaned with a soft brush mounted on a vacuum cleaner, set to the lowest level.

Picture screen

To clean the picture screen, use a mild window cleaning fluid (not containing alcohol). To retain the optimum performance of the screen, make sure that no streaks or traces of the cleaning fluid are left on the screen.

Beo4

Wipe the Beo4 remote control with a soft, lint-free, firmly wrung cloth.

Beo4 remote control

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Waste Electrical and Electronic Equipment (WEEE) – Environmental protection



Electrical and electronic equipment, parts and batteries marked with this symbol must not be disposed of with normal household wastage; all electrical and electronic equipment, parts and batteries must be collected and disposed of separately.

When disposing of electrical and electronic equipment and batteries by use of the collection systems available in your country, you protect the environment, human health and contribute to the prudent and rational use of natural resources.

Collecting electrical and electronic equipment, batteries and waste prevents the potential contamination of nature with the hazardous substances which may be present in electrical and electronic products and equipment.

Your Bang & Olufsen retailer will advise you of the correct way of disposal in your country.


If a product is too small to be marked with the symbol, it will appear in the User Guide, on the Guarantee certificate, or on the packaging.

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For your information ...

Your needs as a user are given careful consideration during the design and development process of a Bang & Olufsen product and we strive to make our products easy and comfortable to operate.

Therefore, we hope that you will take the time to tell us about your experiences with your Bang & Olufsen product. Anything which you consider important – positive or negative – may help us in our efforts to refine our products.

Thank you!

Write to: Bang & Olufsen a/s
BeoCare
Peter Bangs Vej 15
DK-7600 Struer

or call/fax: Bang & Olufsen
Customer Service
+45 96 84 45 25 (phone)
+45 97 85 39 11 (fax)

or email via: www.bang-olufsen.com

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